

Figure 1

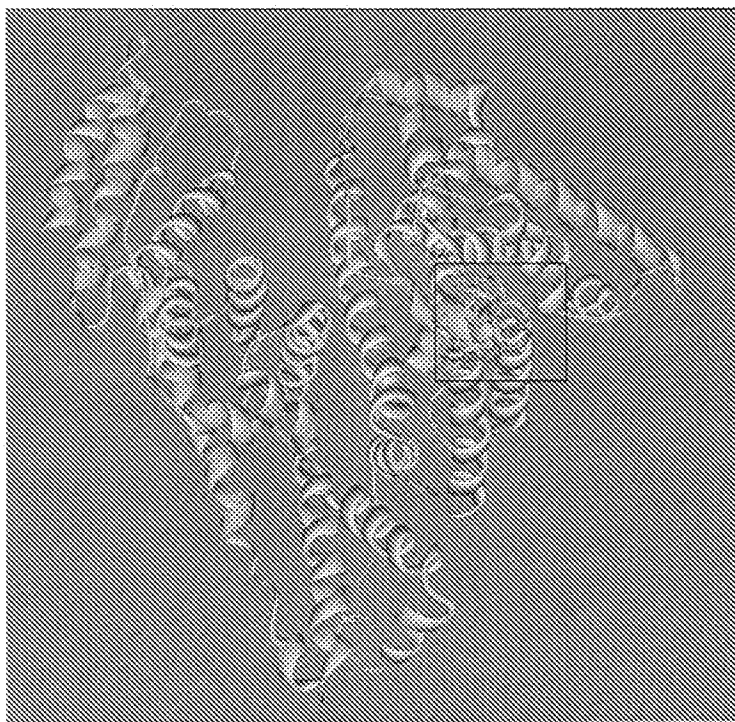


Figure 2

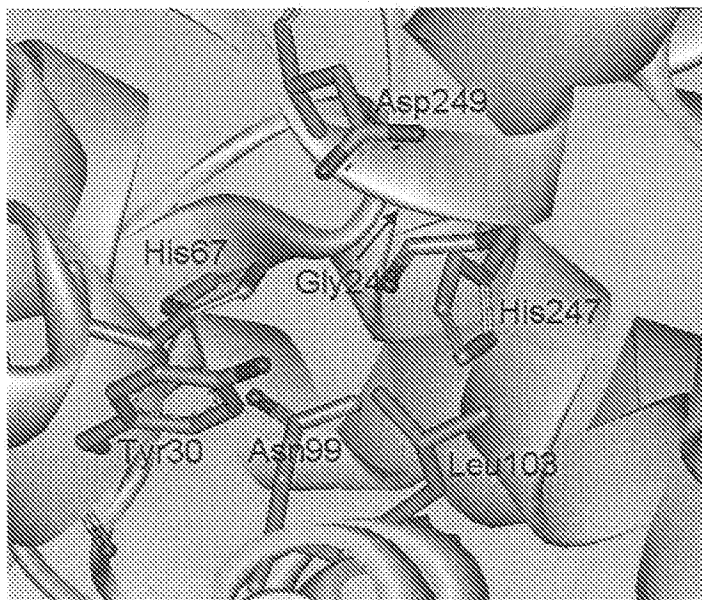


Figure 3a

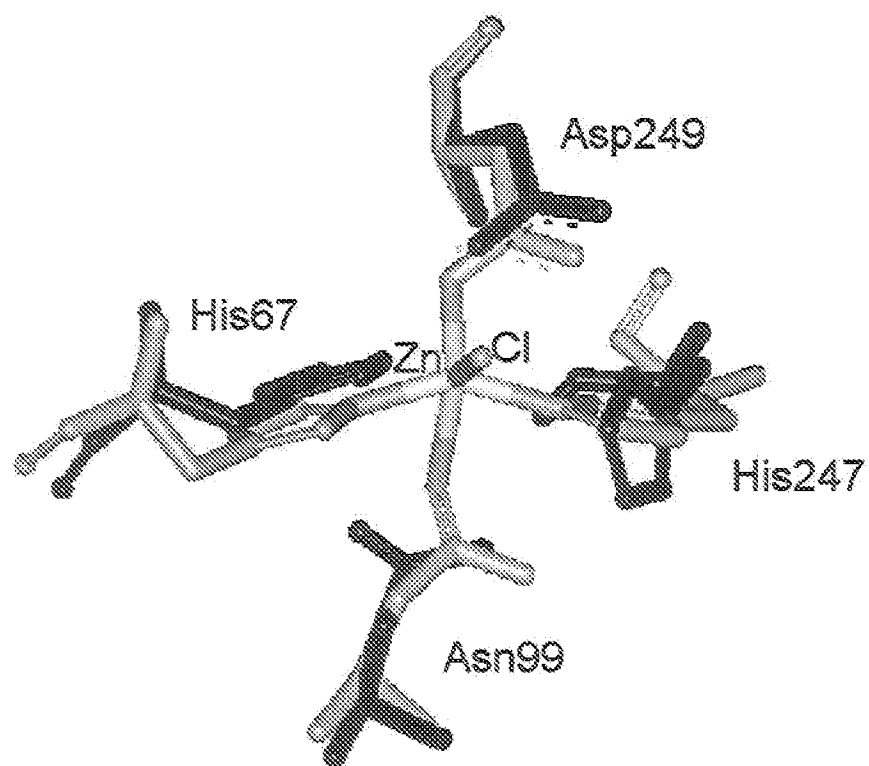


Figure 3b

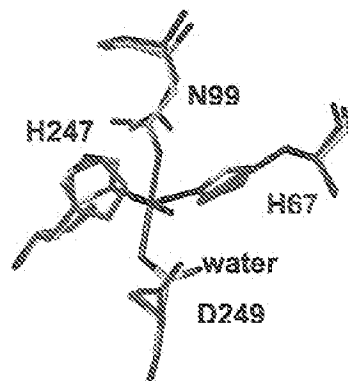
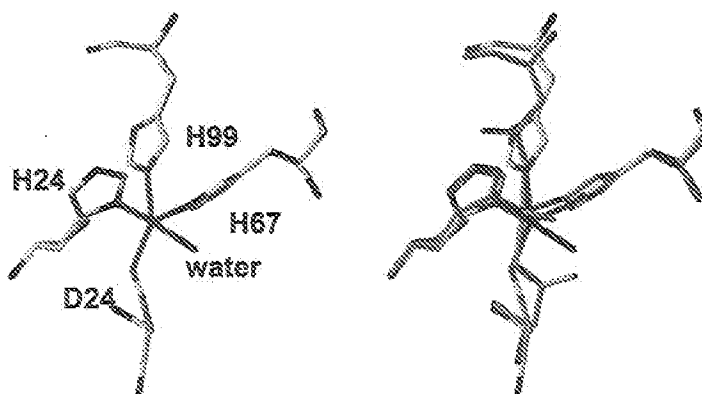


Figure 3c



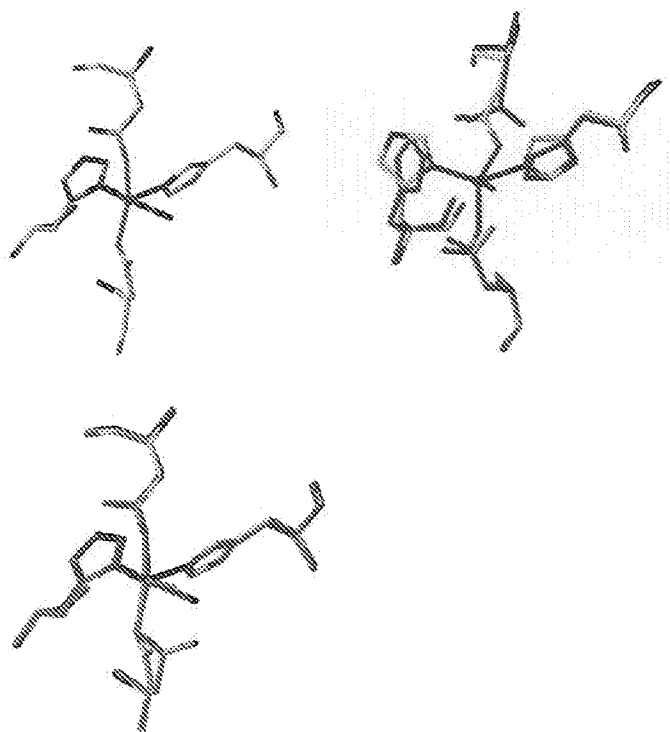


Figure 3d

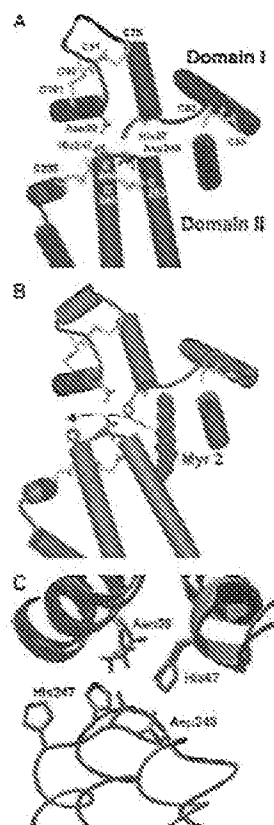


Figure 3e

Figure 4

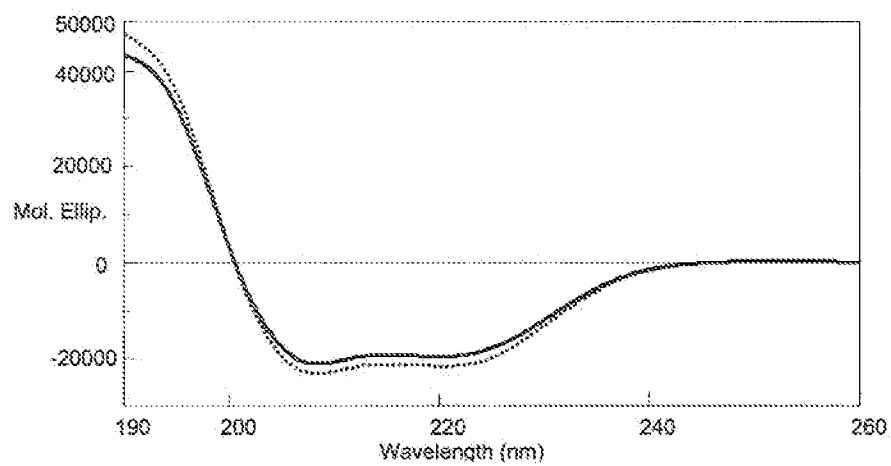


Figure 5

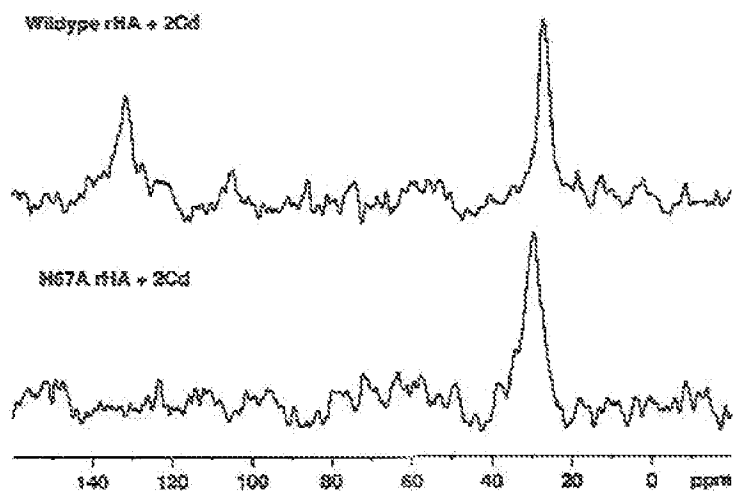


Figure 6

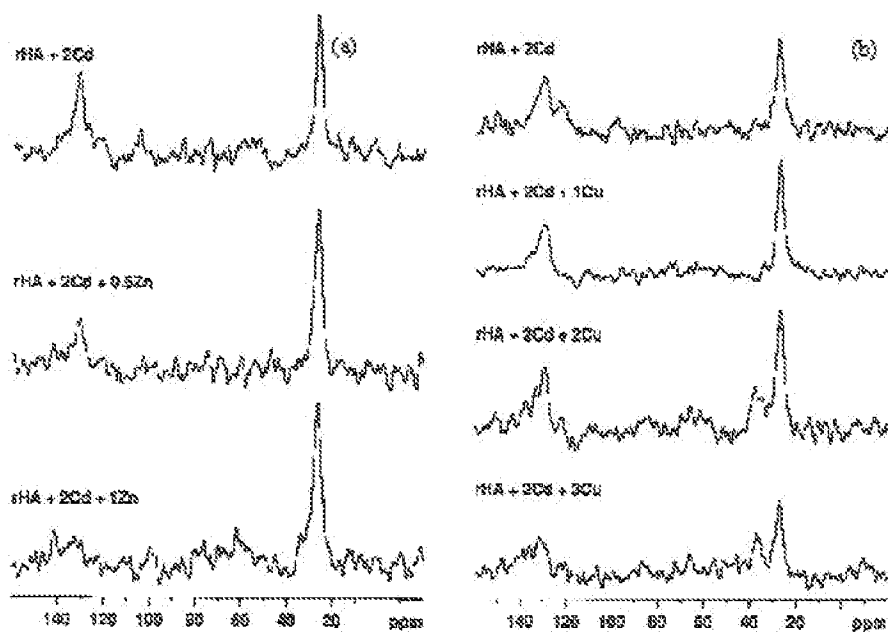


Figure 7

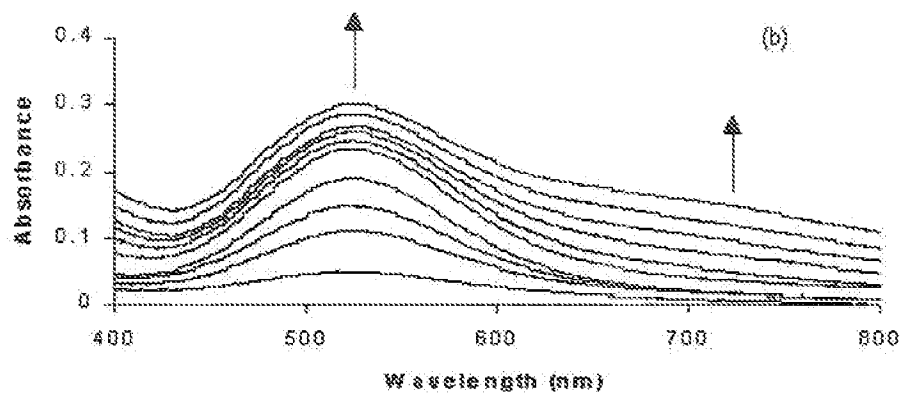
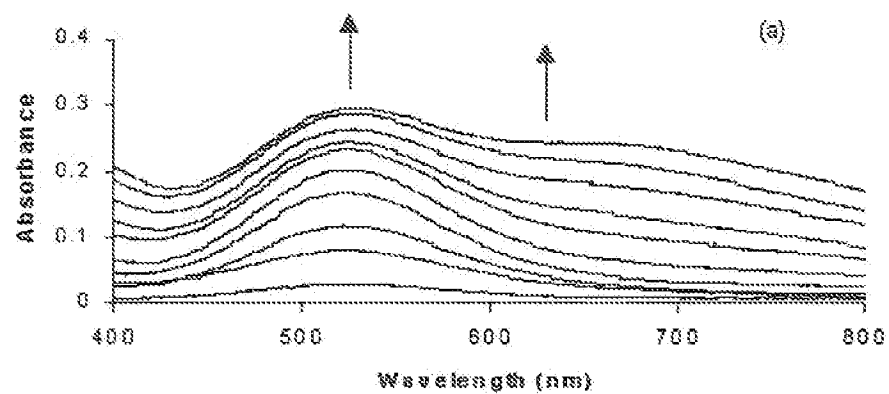


Figure 8

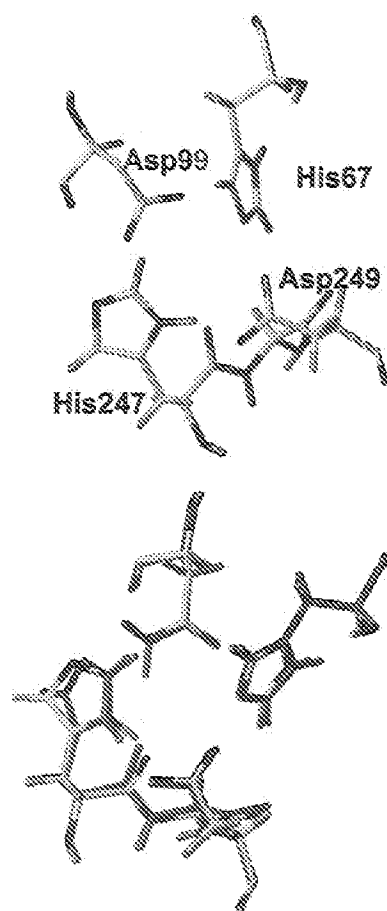


Figure 9

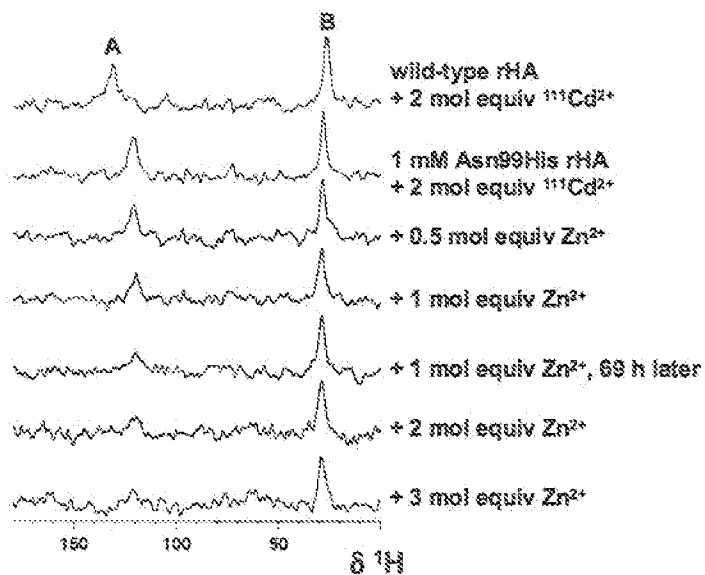


Figure 10

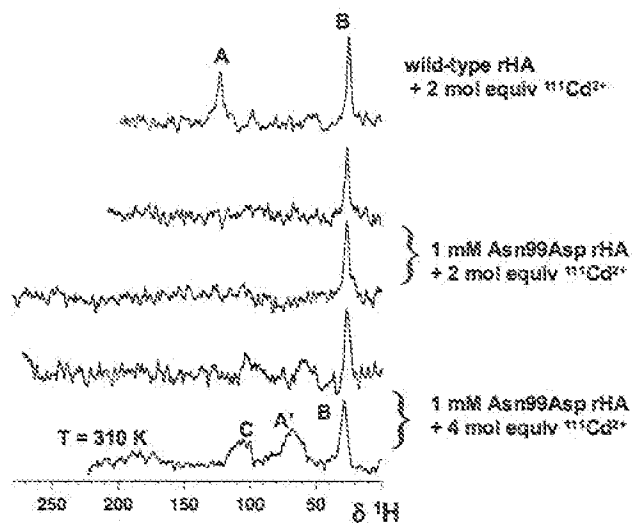


Figure 11

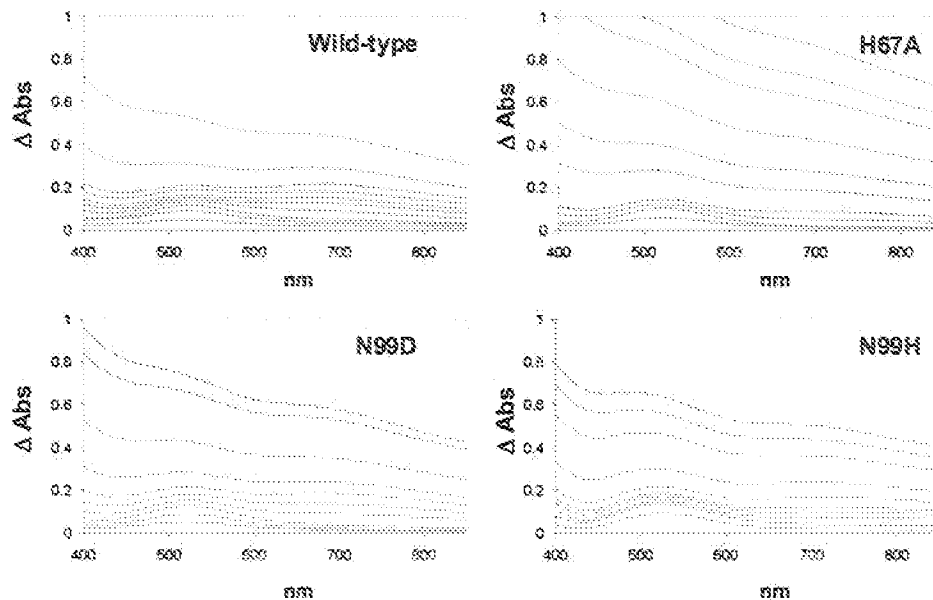


Figure 12

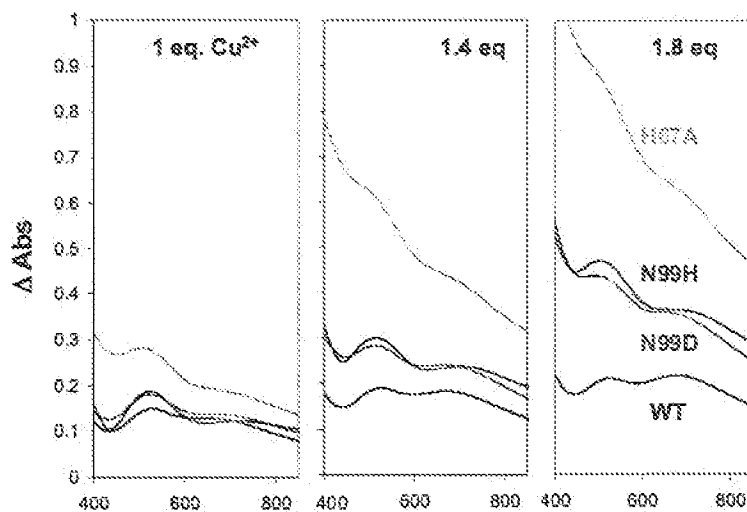


Figure 13

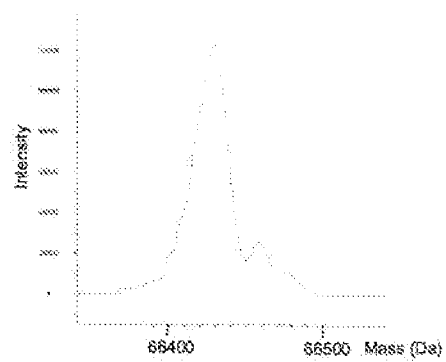


Figure 14

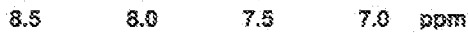


Figure 15

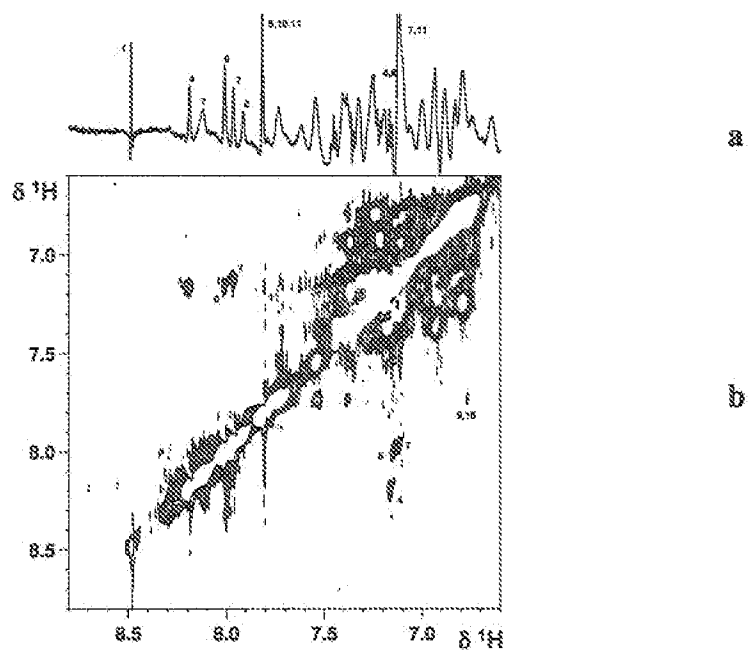


Figure 16

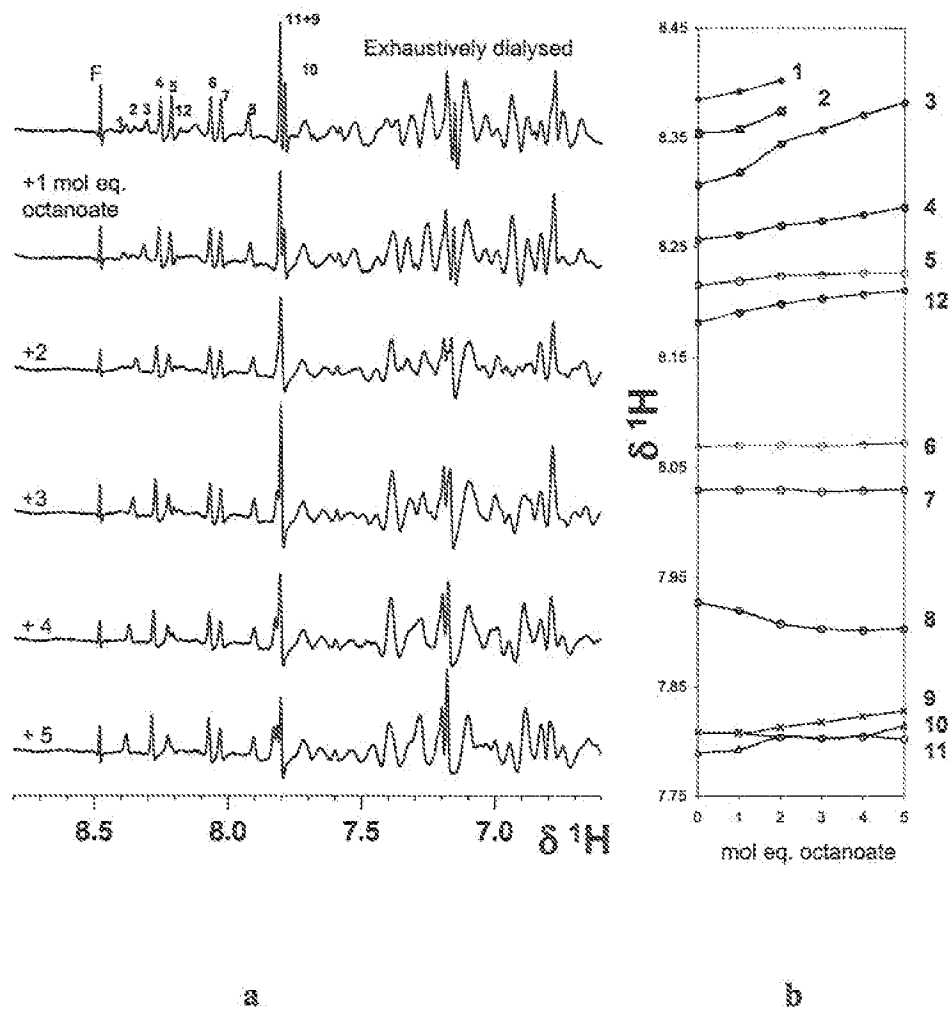


Figure 17a

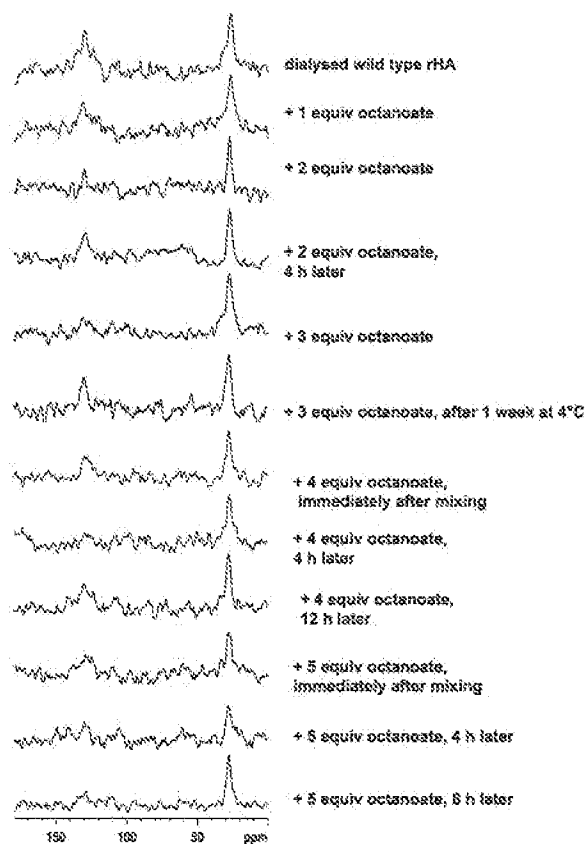


Figure 17b

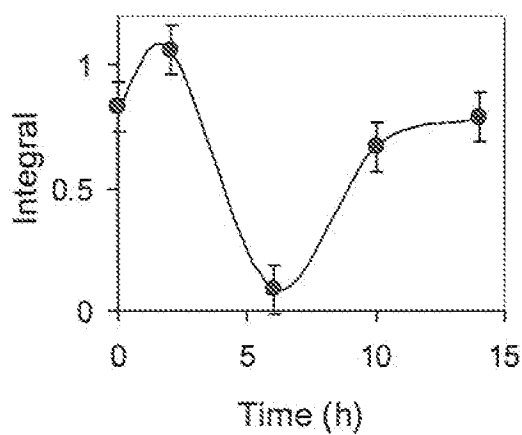


Figure 18a

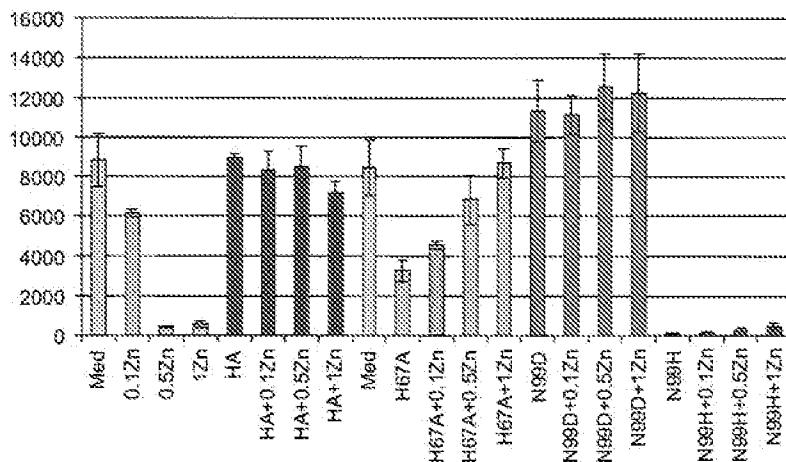


Figure 18b

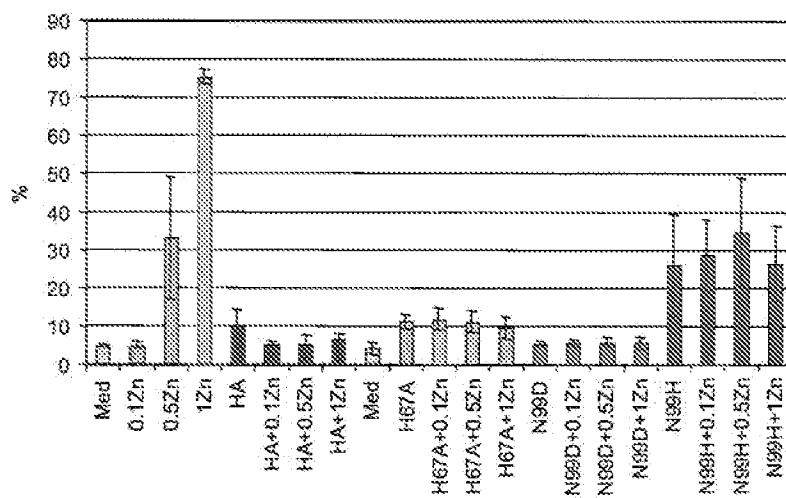


Figure 18c

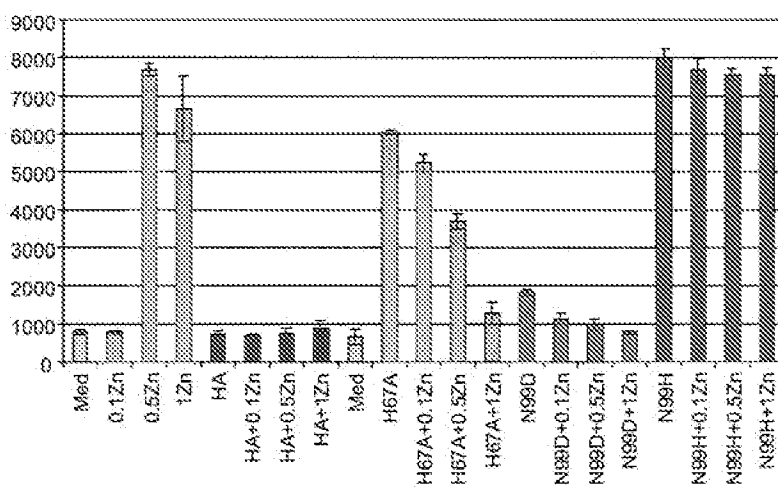


Figure 18d

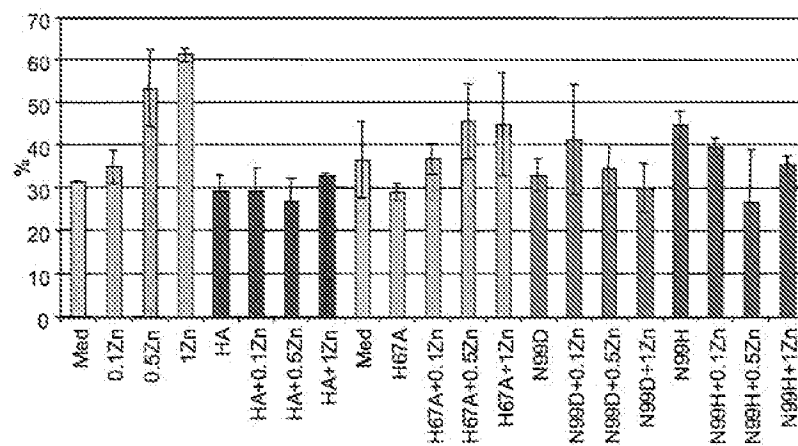
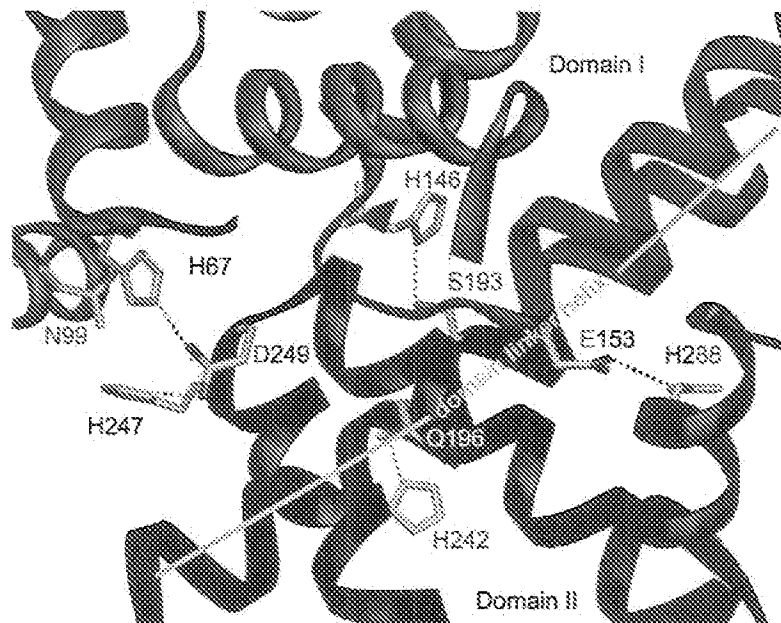


Figure 19



Appl. No.: 10/523,312
 Reply to OA dated March 24, 2008
 REPLACEMENT SHEET
 20/21

Figure 20a

HUMAN	MKWVTFISLLFLFSSAYSRGVFRPDANKSEVAHRFKDLGEENFKALVLIAFAQYLLQCCPF	60
MACAQUE	-----LLFLFSSAYSRGVFRPDTHKSEVAHRFKDLGEENFKGLVLVAFSQELQCCPF	52
CANINE	MKWVTFISLLFLFSSAYSRGVFRPEAYKSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	60
FELINE	MKWVTFISLLFLFSSAYSRGVFRPEAHQSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	60
BOVINE	MKWVTFISLLFLFSSAYSRGVFRPDTHKSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	60
SHEEP	MKWVTFISLLFLFSSAYSRGVFRPDTHKSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	60
PIG	---WVTFISLLFLFSSAYSRGVFRPDYKSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	58
RABBIT	MKWVTFISLLFLFSSAYSRGVFRPEAHKSEIAHRYNDVGEENFKGLVLITFSQELQCCPF	60
RAT	MKWVTFLLLLFISGSASFSGVFRPEAHKSEIAHRYNDLGEENFKGLVLVAFSQELQCCPF	60
X_1		
HUMAN	EDHVKLNVNEVTEFAKTCVADESAENCCKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	120
MACAQUE	EDHVKLNVNEVTEFAKTCVADESAENCCKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	112
CANINE	EDHVKLAKEVTEFAKCAAEESGANCCKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	120
FELINE	EDHVKLNVNEVTEFAKGCVADESAANCEKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	120
BOVINE	EDHVKLNVNEVTEFAKTCVADESAAGCEKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	120
SHEEP	EDHVKLNVNEVTEFAKTCVADESAAGCEKSLHTLFGDKLCTVATLRETYGEMADCCAKQEP	120
PIG	EDHVKLNVNEVTEFAKTCVADESAENCCKSLHTLFGDKLCAIPSLREHYGDLADCCAKQEP	118
RABBIT	EDHVKLNVNEVTEFAKTCVADESAANCEKSLHTLFGDKLCAIPSLREHYGDLADCCAKQEP	120
RAT	EDHVKLNVNEVTEFAKTCVADESAENCCKSLHTLFGDKLCAIPSLREHYGDLADCCAKQEP	120
X_2 X_3		
HUMAN	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	180
MACAQUE	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	172
CANINE	DRNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	180
FELINE	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	180
BOVINE	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	179
SHEEP	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	179
PIG	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	177
RABBIT	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	180
RAT	ERNECFLOHKNDDNPNLPPLVRPEVGVMTAFHNEETFLKKYLYEIAHRHPYFYAPPELLF	180
X_2 X_3 X_4		
HUMAN	FAKRYKAAPTECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	240
MACAQUE	FAARYKAAPTECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	232
CANINE	YAQYKGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	240
FELINE	YAEYKGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	240
BOVINE	YANKYNGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	239
SHEEP	YANKYNGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	239
PIG	YAIYNGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	237
RABBIT	YAQYKGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	240
RAT	YAEYKGVFAECCQAADKAACILFKLDELDEGKASSAKQRLKASLQKFGERAFAKAWAV	240
X_2 X_3 X_4		
HUMAN	ARLSQRFPPKAEFAEVSKLVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	300
MACAQUE	ARLSQRFPPKAEFAEVSKLVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	292
CANINE	ARLSQRFPPKADFAISIKVVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	300
FELINE	ARLSQRFPPKAEFAEVSKLVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	300
BOVINE	ARLSQRFPPKAEFAEVSKLVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	299
SHEEP	ARLSQRFPPKADFTDVTIKVVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	299
PIG	ARLSQRFPPKADFTDVTIKVVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	297
RABBIT	ARLSQRFPPKADFTDVTIKVVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	300
RAT	ARLSQRFPPKADFTDVTIKVVTDLTKVHTECCGDLLECADDRADLAKYICENQDSISSKILK	300
X_2 X_3 X_4		
HUMAN	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	360
MACAQUE	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	352
CANINE	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	360
FELINE	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	360
BOVINE	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	359
SHEEP	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	359
PIG	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	357
RABBIT	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	360
RAT	ECCDKPFLLEKSHCIAEVNDENFADLPISLAADFVESKDVCKNYAEAKDVFLGFLYFYER	360

HUMAN	RHPDYSVVLLRLRLAKYETATLEKCCAAADPHCYAKVDFQDFKPLVERPQNLVQNCELFE	420
MACAQUE	RHPDYSVMILLRLAKAYEATLEKCCAAADPHCYAKVDFDFQPLVERPQNLVQNCELFE	412
CANINE	RHPFYSVSVLLRLAKYEATLEKCCATDSDPTCYANVLDFEFPKLVDEPQNLVNTNCELFE	420
FELINE	RHPFYSVSVLLRLAKYEATLEKCCATDFEFPACIAHVFDFEFPPLVERPHNLVNTNCELFE	420
BOVINE	RHFFYAVSVLLRLAKYEATLEKCCAKDDPHACYSTVFDFKLHLVDFEPQNLVQNCDQFE	419
SHEEP	RHPFAYSVLLRLAKYEATLEKCCAKDDPHACYATVDFKLHLVDFEPQNLIKNCELFE	419
PIG	RHPDYSVSVLLSLIAKIYATLEDCCKADEPPACYATVDFDFEFPQLVDFEPKNLVQNCELFE	417
RABBIT	RHPDYSVVLLRLRLKAYEATLEKCCATSDPHACYAKVLDFEFPQLVDFEPKNLVQNCELFE	420
RAT	RHPDYSVSVLLRLAKKYEATLEKCCABGDPPACYGTVLAEFPQLVDFEPKNLVNTNCELFE	420
***** ***** *****		

[illegible][illegible]

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HUMAN      SEKEQIKKQTALVELVKHKPHATKEQKLKAVMDQFAAFVEKCKCKADDKETCFAEEGKRLV 600
MACAQUE    SEFEKQVKKQTALVELVHKHKPHATKEQLKGVMDNFNFAAFVENCCADREACFAEEGPKFV 592
CANINE     PEAEKQVKKQTALVELLKKHKPHATDEQLKTVMGDPGAFVKKCCAAENKGGCPSEEGPKLV 600
FELINE     PEAEKQIKKQTALVELLKKHKPHATEQLKTVMGDFGSGFVDRGCCAAEDREACFAEEGPKLV 600
ROVINE     PDTEKQIKKQTALVELLKKHKPHATEEQCLKTVMENFVAFVDKCCAADDEKACFAVEGPKLV 599
SHEEP      PUTEKQIKKQTALVELLKKHKPHATDEQLKTVMENFVAFVDRCCAADDEKCGCFVLEGPKLV 599
PIG        PEDEKQIKKQTALVELLKKHKPHATEEQCLKTVLGNFAAFVQCKCCAAFDHEACFAVEGPKFV 597
RABBIT     PETERKIKKQTALVELVSKKPHATNDQLKTVFGFTALLDGCSSAEDREACFAVEGPKLV 600
RAT        PDKEKQIKKQTALAEVLKKHKPHATEDQLKTVMGDFQAFVDKCCAAKDNCNCFATEGENLV 600

      * : * : * : * : * : * : * : * : * : * : * : * : * : * : * : * :

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HUMAN	AASQAALGI	609
MACAQUE	AASQAALA-	600
CANINE	AAQAALV-	608
FELINE	AAQAALA-	608
BOVINE	VSTQTALA-	607
SHEEP	ASTQAALA-	607
FIG	IEIRGILA-	605
RABBIT	ESSKATLS-	608
RAT	ARSKAALA-	608